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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/549,559	04/14/2000	Mats Cedervall	040000-702	9223

27045 7590 06/30/2004

ERICSSON INC.  
6300 LEGACY DRIVE  
M/S EVR C11  
PLANO, TX 75024

EXAMINER

CHANG, EDITH M

ART UNIT	PAPER NUMBER
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2634

13

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/549,559

Applicant(s)

CEDERVALL ET AL.

Examiner

Edith M Chang

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 18 May 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 30-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☒ Claim(s) 30-34 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 April 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION***Claim Objections*

1. Claims 30-34 are objected to because of the following informalities:

Claim 30, step f) line 3, the term "said distortion" is suggested changing to "the distortion"; line 5, the term "said filter parameters and channel coefficient" is suggested changing to "said filter parameters and the channel coefficient"; line 10-11, the term "wherein in the filter parameters and the channel coefficient mathematical algorithm," is suggested changing to "wherein a mathematical algorithm for calculating the filter parameters and the channel coefficient,"; line 13, the term "the process" is suggested changing to "the order estimation procedure".

Claim 31, step f) line 3, the term "said distortion" is suggested changing to "the distortion"; line 5, the term "said filter parameters and channel coefficient" is suggested changing to "said filter parameters and the channel coefficient"; line 10-11, the term "wherein in the filter parameters and the channel coefficient mathematical algorithm," is suggested changing to "wherein a mathematical algorithm for calculating the filter parameters and the channel coefficient,"; line 13, the term "for estimation of the desired signal" is suggested changing to "a suboptimal method for the order estimation procedure of the desired signal".

Claim 32, line 2, the term "on the residuals" lacks antecedence, it is suggested adding antecedence in the claim or its parent claims or changing to "residuals".

Claim 33, line 1-2, the term "each estimated model of different orders" lacks antecedence, it is suggested adding antecedence in the claim or its parent claims; line 3

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the term "said model order" lacks antecedence, it is suggested adding antecedence in the claim or its parent claims,

Claim 34, line 2, the term "the identification logarithm" is suggested changing to "an identification algorithm".

Appropriate corrections are required.

### *Allowable Subject Matter*

2. The following is a statement of reasons for the indication of allowable subject matter:

Claim 30 is allowable over prior art of record because the prior art of record does not teach or suggest, alone or in a combination, among other things, at least a method as a whole, the combination of elements and features as claimed, which includes an adaptive order selection method of the order estimation.

Claims 32-34 are allowable as dependent claims of the allowable claim 30.

Claim 31 is allowable over prior art of record because the prior art of record does not teach or suggest, alone or in a combination, among other things, at least a method as a whole, the combination of elements and features as claimed, which includes a suboptimal method for the order estimation.

### *Conclusion*

3. This application is in condition for allowance except for the following formal matters: the informalities listed as above.

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Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.


A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edith M Chang whose telephone number is 703-305-3416. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edith Chang  
June 9, 2004

  
CHIEH M. FAN  
PRIMARY EXAMINER